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NOTICE OF ALLOWANCE AND FEE(S) DUE

52989

7590

11/26/2010

Dickinson Wright PLLC James E. Ledbetter, Esq. International Square 1875 Eye Street, N.W., Suite 1200 Washington, DC 20006 EXAMINER

WILLIAMS, LAWRENCE B

ART UNIT PAPER NUMBER

2611

DATE MAILED: 11/26/2010

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/563,248	01/04/2006	Mitsuru Uesugi	L9289.05201	8676

TITLE OF INVENTION: SPREAD CODE GENERATION METHOD, CDMA TRANSMISSION DEVICE, AND CDMA RECEPTION DEVICE

I	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/28/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

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appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 52989 7590 11/26/2010				tion of maintenance fees will be mailed to the current correspondence address as w correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must				
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Dickinson Wri James E. Ledber International Sq	ght PLLC tter, Esq. uare	I St ac tr:	hereby certify that that the same service of the same service of the Main service of the Main service of the Main service of the same service of t	nis Fee(with suf 1 Stop	e of Mailing or Transı (s) Transmittal is being Efficient postage for firs ISSUE FEE address (1) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile		
1875 Eye Street, N.W., Suite 1200 Washington, DC 20006				(Depositor's name)				
, tuaming con, 2	20000		L				(Signature)	
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR .	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.	
10/563,248	01/04/2006		Mitsuru Uesugi			L9289.05201	8676	
APPLN, TYPE	SMALL ENTITY	ERATION METHOD, C	PUBLICATION FEE DUI			TOTAL FEE(S) DUE	DATE DUE	
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WILLIAMS, I	LAWRENCE B	2611	375-140000					
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Tree Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY)								
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	☐ Individual ☐ C	orporat	ion or other private gro	oup entity Government	
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies 5. Change in Entity Status (from status indicated above)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
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NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than COffice.	n the applicant; a reg	istered	attorney or agent; or th	ne assignee or other party in	
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10/563,248 01/04/2006		Mitsuru Uesugi	L9289.05201	8676
52989 75	590 11/26/2010		EXAM	INER
Dickinson Wrigh	it PLLC	WILLIAMS, LAWRENCE B		
James E. Ledbetter	; Esq.	ART UNIT	PAPER NUMBER	
International Squa 1875 Eye Street, N Washington, DC 2	I.W., Suite 1200	2611 DATE MAILED: 11/26/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 647 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 647 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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	Application No.	Applicant(s)				
AL 42	10/563,248	UESUGI, MITSURU				
Notice of Allowability	Examiner	Art Unit				
	LAWRENCE B. WILLIAMS	2611				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to final amendment filed to the Allowed claim(s) is/are 13, 15, renumbered as 1-2, results Acknowledgment is made of a claim for foreign priority under the Allowed State of the Allowe	(OR REMAINS) CLOSED in this at or other appropriate communication IGHTS. This application is subject and MPEP 1308. If and MPEP 1308. If an application is subject and MPEP 1308. If an application is subject and MPEP 1308.	application. If not included on will be mailed in due course. THIS				
a) ☑ All b) ☐ Some* c) ☐ None of the:						
1. ☑ Certified copies of the priority documents have	e been received.					
2. ☐ Certified copies of the priority documents have						
 Copies of the certified copies of the priority do 	• • •					
International Bureau (PCT Rule 17.2(a)).		<u> </u>				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 						
Attachment(s)	- -					
1. Notice of References Cited (PTO-892)	5. Notice of Informal					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa Paper No./Mail D					
3. Information Disclosure Statements (PTO/SB/08),	7. ☐ Examiner's Amen					
Paper No./Mail Date <u>8/10/2010</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Stater	ment of Reasons for Allowance				
of Biological Material	9. ☑ Other <u>Office Actio</u>					
/Tesfaldet Bocure/						
Primary Examiner, Art Unit 2611						

Application/Control Number: 10/563,248 Page 2

Art Unit: 2611

DRAWINGS

1. The drawings were received on 11/04/2010. These drawings are accepted by the examiner.

RESPONSE TO AMENDMENTS

2. The examiner thanks the applicant for the amendments to the specification. The amendment to the specification is accepted by the examiner.

Application/Control Number: 10/563,248 Page 3

Art Unit: 2611

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The instant application discloses a CDMA transmission and reception apparatus. A search of prior art records has failed to teach or suggest, alone or in combination:

A CDMA transmission apparatus, comprising:

"a plurality of cascaded inverse discrete Fourier transformers are used to constitute the spreading code generator and the spreader, and performing inverse discrete Fourier transform on the transmission signal hierarchically" (Fig. 17) as disclosed in claim 13.

A CDMA reception apparatus, comprising:

"a plurality of cascaded discrete Fourier transformers are used to constitute the spreading code generator and the spreader, and perform discrete Fourier transform on the received signal hierarchically" (Fig. 18) as disclosed in claim 15.

Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a.) Sawahashi et al. discloses Radio Transmission System And Method, and Transmitter
 Apparatus And Receiver Apparatus Used In The Radio Transmission System in US Patent
 7,324,434 B2.

- b.) Tanaka discloses Spectrum Spreading Signal Demodulation Method And Apparatus in US 20100014563 A1.
- c.) Tanaka discloses Spectrum Spreading Signal Demodulation Method And Apparatus in US 20100014562 A1.
- d.) Huang et al. discloses FFT-Based CDMA Rake Receiver System And Method in US Patent 6,154,443.
- e.) Uesugi et al. discloses Data Transmission Apparatus And Data Transmission Method in US 2004/0042386 A1.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 571-272-3037. The examiner can normally be reached on Monday-Friday (8:00-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ghayour Mohammad can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tesfaldet Bocure/ Primary Examiner, Art Unit 2611 Application/Control Number: 10/563,248 Page 5

Art Unit: 2611

lbw

November 24, 2010